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Bio-organic hybrids of DNA, peptides and surfactants: from liquid crystals to molecular sleds

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Stellingen

Behorende bij het proefschrift:

Bio-organic hybrids of DNA, peptides and surfactants: from liquid crystals to
molecular sleds

Lei Zhang

1. Solvent-free bio-liquids can be simply fabricated based on electrostatic interactions and expand potential applications into solvent incompatible technologies. (Chapter 1)
2. Phase transition behavior of a bio-hydrogel from disorder to order can be tuned by different mechanical stimuli. (Chapter 2)
3. The property of DNA-surfactant complexes can be manipulated not only by the DNA component but also by the structure of the surfactant. (Chapter 3)
4. One-dimensional diffusion can be exploited to speed up a broader class of reactions occurring in vitro. (Chapter 4 and 5)
5. Success not only needs “hard work” but also fortunate.
6. Patience can be trained by chemical synthesis.
7. Good relationship in a group helps a lot to achieve your goal efficiently.
8. Life is tough for a Mom living apart from her baby.